IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Syed M. Mohiuddin and Daniel E. Hilleman

Serial No.:

330,156

Filed:

March 29, 1989

For: NOVEL METHOD OF MYOCARDIAL IMAGING

LETTER

Commissioner of Patents & Trademarks Washington, D. C. 20231

Attention: Licensing and Review

Sir:

Responsive to your communication mailed April 17, 1989, enclosed is the Declaration of the above-identified applicants.

Respectfully submitted,

Registration No. 20,532

333 S. Grand Av., #3700 Los Angeles, CA 90071

(213) 688-7407

I hereby certify that this correspondence is being deposited with the United States
Postal Service as first class mail in an
envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231 on may 25, 1989

	VINO DEFINAL IS ALL THE PROPERTY OF THE PROPER
The foilowing is an example of an acceptable property rights suitable for situations in which NO Agency funds or other coof the invention. While this example is in the form of a deci	s statement. Statements of this type are, or course, only onsiderations were involved in the making or conception laration, a sworn document is equally acceptable.
	DANTET, E. HILLERING
I(We) SYED N. MOHIUDDIN	n s A.
I (We) SYED II. MOHIUDDIN citizens of	O-ba Nebraska
residing at <u>Omaha Nebraska</u>	Omana, it
declare:	d signed in patent application:
declare: That i (we) made and conceived the invention described and	G Claimine III para in 171
	1. OG 14M4 1
Serial Number 330, 156 filed in the Un	TNG
Serial Number 330, 156 titled NOVEL METHOD OF MYOCARDIAL IMAG	
describes of the Lor II helow)	(Check III and/or IV below as appropriate)
(Check and complete either I or II below)	That to the best of my (our) knowledge and beilef:
☐ i. (For Inventors Employed by an Organization) That i (we) made and conceived this invention while employed. That	- was not made or conceived in the
	the second of with Artificial Life (Cities Co. 1)
the invention is related to the work tall (core of my (our) to perform and was made within the scope of my (our) employment duties; That the invention was made during employment duties;	for the benefit of the United States Atomic Energy Commission or its successors: Energy Research and
	Development Administration or the Department of En-
materiais, funds, information and services of materials. Other relevant	ergy.
(across of appropriate)	AND/OR
facts are	
That to the best of my (our) knowledge and belief (and/or)	IN The invention was not made (conceived or first actually reduced to practice) under nor is there any relation-
47	
59ot:	any contract of the National Aeronautics and opass its
OR	ministration.
That I (we) made	
only my (our) own facilities, equipment, materials, funds, information and services. Other relevant facts are	
information and services. Other resources	V
	where any knowledge are true
The undersigned inventor(s) declare further that all statem	nents made herein of his or her (their) own knowledge are true believed to be true and further that these statements are made
I and that all statements made of injunitation and bottom and	
with the knowledge that willful false stattle his and the line of the United States Code and the	so made are punishable by line of implisormous personal such willful false statements may jeopardize the validity of
the application of any batent issuing thereon.	
Simplified the de	Syed M. Mohiuddin
Post Office Address: 12531 Shamrock Roas	o Omaha, Hebrasia 68154
Post Office Address: 12531 Straits Social Address:	
Date: 5-22.89	Daniel E. Hilleman
Post Office Address: 1424 South 133rd S	it. Omaha, Nebraska 68144
Post Office Address:	
Date: 5-23-89	

FILING RECEIPT



UNITED STATES ARTMENT OF COMMERCE Patent and Tradeniark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	GRP ART UNIT	FII	FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
07/330,156	03/29/89	223	\$	302.00	167109CIP	0	11	4

JOSEPH E. MUETH
333 S. GRAND AVE., 37TH FLR.
LOS ANGELES, CA 90071

Raceipt is acknowledged of the patent epplication identified herein. It will be considered in its order end you will be notified as to the examination tharsof. Be sure to give the U.S. SERIAL NUMBER, DATE OF FILING, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fass transmitted by check or draft ere subject to collection. Please verify the accuracy of the date presented on this transmittal.

Applicant(s)

SYED M. MOHIUDDIN, OMAHA, NE; DANIEL E. HILLEMAN, OMAHA, NE.

CONTINUING DATA AS CLAIMED BY APPLICANT-THIS APPLN IS A CIP OF 07/231,217 08/11/88

* SMALL ENTITY *

TITLE NOVEL METHOD OF MYOCARDIAL IMAGING

PRELIMINARY CLASS: 424

RECEIVED MAY 2 2 1989

JOSEPH E. MUETH

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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

H	SEPH E. MUET	u	Washington, D.C. 202	31
31	SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY, DOCKET NO.
	07/330 156	3-20-00	Daniel E Hilleman et al	167-109CTD

Jean Fleming 333 South Gmand Avenue 37th Floor Los Angeles, CA 90071 EXAMINER

ART UNIT PAPER NUMBER

2

DATE MAILED:

4-17-89

Due 5/31/89

IF NO RESPONSE TO THIS NOTICE IS RECEIVED WITHIN <u>FORTY-FIVE DAYS</u>, A FORMAL REQUIREMENT WILL BE ISSUED

The subject matter of this applicati	on appears to:
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be "useful in the production or utilization of special nuclear material or atomic energy" as recited in 42 U.S.C. 2182 (Department of Energy (DOE)).

□"have significant utility in the conduct of aeronautical and space activities" as recited in 42 U.S.C. 2457 (National Aeronautics and Space Administration (NASA)).

Accordingly, no patent can Issue on this application unless applicant(s) file a statement (under oath or in the form of a declaration as provided by 37 CFR 1.68) setting forth (1) the full facts concerning the circumstances under which the invention was made and conceived and (2) the relationship (if any) of the invention to the performance of any work under any contract or other arrangement with the Agency(ies) noted above. On the reverse side of this form is an example of an acceptable format for this statement. The language appearing in paragraphs III and/or IV of the example must appear if applicant is attempting to establish that no relationship (under item 2 above) exists.

If the invention disclosed in this application was developed under a contract, grant or cooperative agreement between the Agency indicated above and a person, small business or non-profit organization and rights to the invention have been determined by specific reference to 35 U.S.C. 202 in the contract, grant or cooperative agreement, then applicant need not submit the statement described above. Instead, applicant may file a verified statement (under oath or in the form of a declaration, 37 CFR 1.68) setting forth the information required by 35 U.S.C. 202(c)(6).

IF NO STATEMENT HAS BEEN RECEIVED WITHIN FORTY-FIVE DAYS OF THE MAIL DATE INDICATED ABOVE, a formal requirement for statement will then be Issued. No provision is made for extension of the statutory thirty-day period for response to the formal requirement and the penalty for failure to file an acceptable and timely statement is abandonment of the application. Therefore, applicants are strongly encouraged to submit a statement at this time in order to avoid the issuance of a formal requirement.

IT IS IMPORTANT TO NOTE that the statement must accurately represent the property rights situation of the claimed invention if and when the application is found allowable. Thus, if during prosecution before the examiner, the claimed invention is so altered or the property rights situation so changed as to impact the accuracy of a statement submitted earlier, a supplemental statement must be filed. Failure to submit such additional information where appropriate may be considered a false representation of material facts and render the patent owner vulnerable to loss of patent rights and other sanctions as set forth in the statutes. The PTO will not review allowed applications for this possibility. The responsibility for complying with the statutes rests with the applicants.

Any questions regarding this requirement should be directed to Licensing and Review at (703) 557-3011.

PLEASE DIRECT ALL COMMUNICATIONS RELATING TO THIS MATTER TO THE ATTENTION OF LICENSING AND REVIEW

The state of the s	
I (We) SYED H. MOHIUDDIN	DANIEL F. HILLEMAN
citizens of	U. S. A.
residing at Omaha Nebraska	Omaha, Nehraska
declare:	- · - ··-
That I (we) made and conceived the invention described a	and claimed in patent application:
Serial Number 320 156 filed in the U	inited States of America on March 29, 1989
titled NOVEL METHOD OF MYOCARDIAL IMA	
(Check and complete either I or II below)	(Check III and/or IV below as appropriate)
☐ I. (For Inventors Employed by an Organization) That I (we) made and conceived this Invention while employed	That to the best of my (our) knowledge and belief:
byThat	III. The invention was not made or conceived in the
the invention is related to the work I am (we are) employed to perform and was made within the scope of my (our)	course of, or in connection with, or under the terms of any contract, subcontract or arrangement entered into with or
employment duties; That the invention was made during	for the benefit of the United States Atomic Energy
working hours and with the use of facilities, equipment,	Commission or its successors: Energy Research and
materials, funds, information and services of	Development Administration or the Department of En-
. Other relevant	ergy.
facts are	-AND/OR-
That to the best of my (our) knowledge and belief (and/or)	IN IV. The invention was not made (conceived or first actually reduced to practice) under nor is there any relation-
based upon information provided by	ship of the invention to the performance of any work under
ot:	any contract of the National Aeronautics and Space Ad-
-OR-	ministration.
II. (For Self-Employed Inventors) That I (we) made	
and conceived this invention on my (our) own time using	
only my (our) own facilities, equipment, materials, funds, information and services. Other relevant facts are	
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The undersigned inventoric) declars further that all states	man and the state of the state
The undersigned inventor(s) declare further that all stateme and that all statements made on information and belief are built to be a least to	ints made herein of his or her (their) own knowledge are true
with the knowledge th at willful faise statments and the like so	Made are punishable by fine or imprisonment, or both, undo
section for the filte to de the united States Code and that	t such willful false statements may leopardize the validity of
he application or any patent issuing thereon.	
nventor's Signature:	Syed M. Mohiuddin
ost Office Address: 12531 Shamrock Road	Omaha, Nebraska 68154
5-22-96	
Parie:	
nventor's Signature:	aniel E. Hilleman
0.	. Orcha. Nebraska 68144
Date: 5-23-89	
	"

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The following is an example of an acceptable property rights statement. Statements of this type are, of course, only suitable for situations in which NO Agency funds or other considerations were involved in the making or conception of the invention. While this example is in the form of a declaration, a sworn document is equally acceptable.

I (We) SYED H. MOHIUDDIN	DANIEL R. HILLEMAN		
eitlane of	U. S. A.		
residing at Omaha Nebraska	Omaha, Nebraska		
declare:			
That I (we) made and conceived the Invention described a	nd claimed in patent application:		
Serial Number 330, 156 filed in the Ur	JIEG 2(9) OF WILLIAM OF THE STATE OF THE STA		
titled NOVEL METHOD OF MYOCARDIAL IMAG	SING		
(Check and complete either I or II below)	(Check III and/or IV below as appropriate)		
☐1. (For Inventors Employed by an Organization) That	That to the best of my (our) knowledge and belief:		
I (we) made and conceived this invention while employed byThat	☐ iii.The invention was not made or conceived in the		
the invention is related to the work I am (we are) employed	course of, or in connection with, or under the terms of any		
to perform and was made within the scope of my (our)	contract, subcontract or arrangement entered into with or for the benefit of the United States Atomic Energy		
employment duties; That the invention was made during working hours and with the use of facilities, equipment,	Commission or its successors: Energy Research and		
and control to the second of t	Development Administration or the Department of Energy.		
facts are Information and services of Other relevant			
1808 819	-AND/OR-		
That to the best of my (our) knowledge and belief (and/or)	☐ IV. The Invention was not made (conceived or first actually reduced to practice) under nor is there any relation-		
based upon information provided by	ship of the invention to the performance of any work under		
of:	any contract of the National Aeronautics and Space Ad-		
—OR—	ministration.		
☐ II. (For Self-Employed Inventors) That I (we) made			
and conceived this invention on my (our) own time using only my (our) own facilities, equipment, materials, funds,			
information and services. Other relevant facts are			
	`		
and that all statements made on information and belief are to with the knowledge that willful false statments and the like's Section 1001 of Title 18 of the United States Code and the	ents made herein of his or her (their) own knowledge are true believed to be true and further that these statements are made o made are punishable by fine or imprisonment, or both, under at such willful false statements may jeopardize the validity of		
the application or any patent issuing thereon.	a. a w wahinddin		
inventor's Signature:	Syed M. Montadari		
Post Office Address: 12531 Shamrock Road	Omaha, Hebraska 68154		
Date:			
Inventor's Signature:	Daniel E. Hilleman		
Post Office Address: 1424 South 13376 St	Orcha, Nebraska 68144		
Date:			

Alle 200 011 W HILLEMAN Ð 1571090 11 RECEIVER All from must be paid pursuant JOSEPH E. MUETH to the new feet schedule 333 S. GRAND AVE. . 37TH FLP. publication in IAPR 6893 MAY 09 1989 LOS ANGELES. CA 90071 effective Armii 17 (990). PELICATION DYPE 04 TH/RO LAN VALLE NOTICE TO FILE MISSING PARTS OF APPLICATION— FILING DATE GRANTED

A filing date has been granted to this application.	However, the following	parts are moving
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If all missing parts are filed within the period set below, the fittal amount med by applicant as a large entity. I small entity (verified statement filed), is \$ _

- The statutory basic filing fee is: Thissing Through the statutory basic filing fee is: This small entity, must submit \$ _______ to complete the basic filing fee and MUST ALSO SUBMIT THE SURCHARGE AS INDICATED BELOW.
- Additional claim fees of \$ _____ as a \(\) large entity, \(\) small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due. NO SURUMARGE IS REQUIRED 2. T Additional claim fees of \$ _ FOR THIS ITEM
- 3. 🖸 Die outh or declaration:

in minsing.

does not cover items omitted at the time of execution.

An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.

- 4. The oath or declaration does not identify the application to which it applies. An oath or declaration in compliance with 37 CFR 1.63 identifying the application by the above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
- 5. The signature to the oath or declaration is: missing: a reproduction; by a person other than the inventor or a person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Serial Number and Filting Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.

6.

The signature of the following joint inventor(s) is missing from the oath or declaration: Applicant(s) should provide, if possible an oath or declaration signed by the omitted inventor(s), identifying this application by the above Serial Number and Filing Data. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.

- 7.

 The application was filed in a language other than English. Applicant must file a verified English translation of the application and a fee of \$26.00 under 37 CFR 1.17(k), unless this fee has already been paid NO SURCHARGE UNDER 37 CFR 1.16(e) IS REQUIRED FOR THIS ITEM.
- 8. A\$20.00 processing fee is required for returned checks. (37 CFR 1.21(m)).
- 9. I Your filing receipt was mailed in error because check was returned.
- 10. Other:

A Serial Number and Filing Date have been assigned to this application. However, to avoid abandonment under 37 CFR 1.53(d), the missing parts and fees identified above in items 1 and 3-6 must be timely provided ALONG WITH THE PAYMENT OF A SURCHARGE OF \$110.00/7 for large entities or \$65.00 for small entities who have filed a verified statement claiming such status. The surcharge is set forth in 37 CFR 1.16(a). Applicant is given ONE MONTH FROM THE DATE OF THIS LETTER, OR TWO MONTHS FROM THE PILING DATE of this which the file all mission parts and the part of the surcharge of th application, WHICHEVER IS LATER, within which to file all missing parts and pay any fees. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

Direct the response to, and any questions about, this notice to the undersigned, Attention: Application Branch

A copy of this notice MUST be returned with response.

Pér: Manager, Application Branch (703) 557-3254

COPY TO BE RETURNED WITH RESPONSE

For Office Use Only O 102 O 202 O 103 O 203 D 104 D 105 O 205

RECEIVED



UNITED STA DEPARTMENT OF COMMERCE Patent and Tradomark Office

Addrees: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, B.C. 20231

JOSEPH'E WILLIA

FILING DATE

FIRST NAMED APPLICANT

ATTY DOCKET NO.

07/330,156 03/29/89

HILLEMAN

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167109CIP

JOSEPH E. MUETH
333 S. GRAND AVE., 37TH FLR. LOS ANGELES, CA 90071

All fees must be paid pursuant to the new fee schedule published at 54 F.R. 6893 effective April 17, 1989.

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04/28/89

DATE MAILED:

NOTICE TO FILE MISSING PARTS OF APPLICATION— FILING DATE GRANTED

A filing date has been granted to this application. However, the following parts are missing.
If all missing parts are filed within the period set below, the total amount owed by applicant as a large entity, Semall entity (verified statement filed), is \$
 □ The statutory basic filing fee is: □ missing. □ insufficient. Applicant as a □ large entity, □ small entity, must submit \$to complete the basic filing fee and MUST ALSO SUBMIT THE SURCHARGE AS INDICATED BELOW.
 Additional claim fees of \$ as a large entity, lamble small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due. NO SURCHARGE IS REQUIRED FOR THIS ITEM.
3. PCThe oath or declaration: D-is missing. D does not cover items omitted at the time of execution.
An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
4. The oath or declaration does not identify the application to which it applies. An oath or declaration in compliance with 37 CFR 1.63 identifying the application by the above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
5. ☐ The signature to the oath or declaration is: ☐ missing; ☐ a reproduction; ☐ by a person other than the inventor or a person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Serial Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
6. The signature of the following joint inventor(s) is missing from the oath or declaration: Applicant(e) should provide, if possible an oath or declaration signed by the omitted inventor(s), identifying this application by the above Serial Number and Filing Date. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.
7. The application was filed in a language other than English. Applicant must file a verified English translation of the application and a fee of \$26.00 under 37 CFR 1.17(k), unless this fee has already been paid NO SURCHARGE UNDER 37 CFR 1.16(e) IS REQUIRED FOR THIS ITEM.
8. A \$20.00 processing fee is required for returned checks. (37 CFR 1.21(m)).
9. Your filing receipt was mailed in error because check was returned.
10.
A Serial Number and Filing Date have been assigned to this application. However, to avoid abandonment under 37 CFR 1.53(d), the missing parts and fees identified above in items 1 and 3-6 must be timely provided ALONG WITH THE PAYMENT OF A SURCHARGE OF \$110.00 20.00 for large entities or \$55.00 for small entities who have filed a verified statement claiming such status. The surcharge is set forth in 37 CFR 1.16(e). Applicant is given ONE MONTH FROM THE DATE OF THIS LETTER, OR TWO MONTHS FROM THE FILING DATE of this application, WHICHEVER IS LATER, within which to file all missing parts and pay any fees.

Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). Direct the response to, and any questions about, this notice to the undersigned, Attention:

A copy of this notice MUST be returned with response.

For: Manager, Application Branch

(703) 557-3254

ATTORNEY'S/APPLICANTS COPY

For Office Use Only **102** ☐ 202 ☐ 203 ☐ 103 □ 104 □ 204 CJ 105 C 205

FORM PTO-15/81 (REV. 7-87)

Application Branch.